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Enclosed herewith for filing is a patent application, as follows:

Inventors: Chang, Daniel T; Raju, Jay; Fan, Rodric C.; Chen, Haiqi; and Chen, Paul
Title: "Method and System For Managing and Delivering Web Content To Internet Appliances"

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X This Transmittal Letter (in duplicate);
16 Page Specification (not including claims);
5 Pages of Claims;
1 Page Abstract;
7 Sheets of Drawings; Fig. 1, Fig. 2, Fig. 3, Fig. 4, Fig. 5, Fig. 6, Fig. 7, and Fig. 8;
3 Page Declaration For Patent Application and Power of Attorney
1 Page Recordation Form Cover Sheet (in duplicate);
3 Page Assignment;

CLAIMS AS FILED (fees computed under 37 CFR §1.9(f))

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Respectfully submitted,

Edward C. Kwok
Attorney for Applicants
Reg. No. 33,938



METHOD AND SYSTEM FOR MANAGING AND DELIVERING WEB
CONTENT TO INTERNET APPLIANCES

Daniel T. Chang

Jay Raju

Rod Fan

Haiqi Chen

Paul Chen

10 BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to accessing to
information over the Internet. In particular, the
present invention relates to a customized access to
15 information over the Internet by various internet
appliances with various processing capabilities.

2. Discussion of the Related Art

As the Internet has become a preferred medium for
information access and dissemination, many different
20 devices (e.g., mobile phones, personal digital
assistants and handheld computers) can now be used to
access information on the Internet. In general, these
devices typically have much lesser text and graphical
processing capabilities than a conventional desktop
25 computer. (For convenience, in the remainder of this
description, these devices are collectively referred to
as "internet appliances".) As much of the information
on the Internet is organized for access by a desktop
computer using a hypertext protocol (e.g., http),
30 access to such information by a device other than a
desktop computer can be inefficient. For example, many

web pages are designed with a high-resolution graphical display in mind. Even when possible, accessing such web pages from a mobile telephone without a graphical display and providing only a limited number of short
5 lines for text display can be a very frustrating experience.

To accommodate the different capabilities of the internet appliances, in the prior art, an operator of a website typically provides for each supported internet
10 appliance a specialized "edition" of the website accessible through a specialized gateway. For example, since the current generation of mobile telephones are typically only capable of displaying text of a small number of characters per line, an operator would
15 provide specially designed text-only "stripped down" web pages accessible through a wireless access protocol (WAP) gateway. In most instances, information available in the general edition of the web pages are included or excluded by the designer or operator based
20 on its resource availability or other criteria, without user participation. Often, therefore, information important to some users is arbitrarily excluded, thereby severely reducing the utility of the web pages.

Where a specialized website is not available, the
25 gateway would provide only the text from the web pages and discard or ignore graphical information, animation or other functions embedded in the web pages. In such an instance, no attempt is typically made to filter the information based on the content of a web page.
30 Consequently, a relatively small web page can result in the user pressing the "scroll" key a large number of times. Many users therefore do not consider internet appliances to be suitable for serious information retrieval purposes.

SUMMARY OF THE INVENTION

The present invention provides a method and a system for customizing a structured document (e.g., a web page) for delivery to an internet appliance. The present invention allows a structured document to be customized according to a user's preferences and according the particular requirements of an accessing device, rather than arbitrarily determined by a gateway operator or a web service provider of the structured document.

In one embodiment, a method of the present invention includes: (a) identifying information units in the structured document; (b) selecting one or more of the information units for delivery; (c) creating in a database a second structured document which includes the selected information units; and (d) delivering the second structured document to the internet appliance. In one implementation, the second structured document is provided in the database in the form of an XML document.

In one embodiment, a management server creates a menu for selection, which includes the information units identified in the structured document. The menu is typically presented to the user who is using a conventional browser running on a machine with a high-resolution graphical display. Typically, after the customization is complete, subsequent access to the customized structured document is provided to an internet appliance with limited bandwidth or display capability, such as a mobile telephone, a personal digital assistant, or a hand-held computer.

Typically, the user logs into the management server using standard verification procedures (e.g.,

providing a user name and a password). The user typically registers the intended internet appliance with which he or she intends to access the customized structured documents. Registration refers to a
5 procedure for identifying the device and its capabilities. To create the customized document, the user may select from a pre-formed list, or by specifying the structured document using a uniform resource locator (URL). The list of customized
10 structured document is stored, in one implementation, as a list of bookmarks.

In one embodiment, the internet appliance includes means for determining the internet appliance's geographical location. In that embodiment, the operator of the customization service also offers pre-
15 configured resources (i.e., web pages) providing location-specific information, such as travel information, traffic condition reports, etc. These pre-configured resources can be updated on demand, at
20 specified frequency or as the location of the internet appliance changes.

In one embodiment, the customized structured documents are created taking into consideration the limited capabilities of a target internet appliance. To inform the management server of the internet appliance's capabilities, a device profile is created in a database.

To support a management server, in accordance with the present invention, a database accessible by the management server includes (a) a user record; (b) a device record identifying an internet appliance; (c) a client record identifying a browser running on the internet appliance; (d) a user_client record associating the user record with the client record; and

Figure 1 is a block diagram 100 of a system providing customized access to web content in accordance with one embodiment of the present invention.

5 Figure 2 is a flow diagram 200 illustrating interactions between management server 105 and a user during a management session, in accordance with the present invention.

10 Figure 3 is a flow diagram 300 illustrating the interactions between an internet appliance and portal 108 during an access of web resources by the internet appliance, in accordance with the present invention.

Figure 4 shows a data structure 400 suitable for use with the operations of management server 105.

15 Figure 5 is a block diagram illustrating procedure 500, which creates a bookmark for a first internet appliance, in accordance with an embodiment of the present invention.

20 Figure 6 shows a web page illustrating one application of the present invention.

Figure 7 shows a menu listing information units identified during processing of the web page of Figure 6 by a document manager, in accordance with one embodiment of the present invention.

25 Figure 8 shows the image of a processed web page received by an internet appliance, based on user preference determined from the menu listing of Figure 7.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

graphical images, executable application programs ("applets"), and embedded links to other structured documents. In the embodiment shown in Figure 1, document manager 106 parses a structured document to
5 break down the structured document into component inter-related information units and stores the information units into database 107. The user, through document manager 106, can manipulate these information units to create new documents, which can be output in
10 various formats (e.g., HTML, Microsoft Word, WML, PHTML etc.). In one embodiment, structured documents are stored in database 107 as XML documents. The elements of an XML document can be treated as information units.

One example of a document manager suitable for use
15 in conjunction with the present invention is disclosed in a copending patent application (the "Copending Application"), entitled "Method and System for Managing Reusable Information Units," serial no. _____, filed on May 4, 2000, which claims priority to a provisional
20 patent application, entitled "Method and System for Managing Reusable Information Units," serial no. 60/132,674, filed May 5, 1999. The Copending Application is hereby incorporated by reference in its entirety. A document manager related to the Copending
25 Application, which is also suitable for use in conjunction with the present invention is the Directive product, offered by Hynet Technologies.

Portal 180 is a gateway provided for communication with a mobile device, such as a web browser 103 running
30 on a mobile telephone, or an information retrieval application program 102, running on an internet appliance (e.g., the iLocator Module from @Road, Inc.) Communication with portal 180 is performed using a protocol specific to the internet appliance (e.g.,

the channels would deem the information relevant, and a frequency of channel update.

Figure 2 is a flow diagram 200 illustrating interactions between management server 105 and a user during a management session, in accordance with the present invention. As shown in Figure 2, at step 201, the user enters the management session from an entry point, such as the home page of the operator of management server 105 (e.g., <http://www.atroad.com>). In this instance, access to the user records is provided only upon proper identity verification procedure (step 202), such as by the user providing a user name and a password. If the user is not a registered user, registration may occur at step 203. In one embodiment, a user is associated with two files: "bmList.txt" and "menu.wml". "bmList.txt" is a file listing customized resources ("bookmarks") associated with the user. Portal 108 reads "menu.wml" to create a suitable menu for web content navigation using an internet appliance. Figure 4 shows a data structure 400 suitable for use with the operation of management server 105. For each user, a user record 401 is assigned.

In this example, upon entering the management session, the user is presented (step 204) a menu from which the user can select one of five procedures: (1) register a device, (2) configure a device, (3) create a bookmark, (4) modify a bookmark, and (5) associate a bookmark to a registered device.

From the menu of step 204, if the user elects to register a device (step 205), the user identifies the device to be registered from a list of devices (e.g., a particular make and model of a mobile telephone) known to management server 105. The user then enters

identification and operational information specific to device (step 211), confirms the information (step 212) and creates and saves the device record into management server 105's device data base (steps 213 and 214). For
5 each device, management server 105 retrieves user_client record 406, which associates client record 402 with user record 401. (Client record 402, shown in Figure 4, identifies a client -- the identity of the subscriber to the current service). Management server
10 105 then creates device profile record 404, which associates physical device record 403 with user_client record 406. Physical device record 403 identifies the physical device in the database and references device information record 405, which provides additional
15 information regarding the operational characteristics or attributes of the physical device (e.g., telephone number assigned to the device, email address to send any electronic mail to the device, model number etc.) Management server 105 then returns the user to step
20 204.

From the menu of step 204, if the user elects to configure a registered device (step 206), management server 105 retrieves the profile of an existing device (step 216), and allows the user to edit the retrieved
25 profile. When the user confirms the changes made (step 217), the user is allowed to authorize overwriting the existing device record (step 218), or to save the modified profile for a new device (step 219). The same profile can be applied to different device records
30 (step 220). When the modifications are confirmed and saved (steps 221 and 222), management server 105 returns the user to step 204. In one embodiment, step 206 can also be used similarly to retrieve and modify the configuration of a channel. As shown in Figure 4,
35 channel personalization record 409 and range value

record 410 are created to support these pre-configured channels. Channel personalization record 409, which includes identities of the channels the user has selected, associates the configurations of these
5 channels to user_client record 406. Channel personalization record 409 also associates with each channel valid range values defined in range value record 410. A procedure similar to that disclosed in steps 215-222 can be used to allow a modification of a
10 channel configuration (e.g., changing range values).

From the menu of step 204, if the user elects to create a bookmark (step 207), management server 105 allows the user to create a bookmark from either a pre-processed list (step 223) of web resources, or enters a
15 uniform resource locator ("URL") to identify a web resource not on the list (step 224). From either choice, the web resource is retrieved from the appropriate server (e.g., server 101 of Figure 1) and processed (step 225) to identify the information units
20 in the resource or structured document, using document manager 106. Manager 106 can be, for example, the document manager described in the Copending Application mentioned above. Processing the retrieved resource is described in further detail below in conjunction with
25 Figures 5 and 6.

Once processed, document manager 106 allows the user to customize the use of the resource (step 226). For example, in one embodiment, the user is allowed to identify the information units to be delivered when
30 accessing a resource from a specified internet appliance. This example is illustrated in Figures 6-8. Figure 6 shows a web page from <http://www.yahoo.com>. Management server 105 allows a user to customize access to this web page from an internet appliance with
35 limited display capabilities, such as a mobile

telephone. To achieve the customization, document manager 106 parses the web page to identify the information units referenced in the page (in this case, the information units represented by the hyperlinks).

5 The information units identified can be presented for
user selection on a menu page, such as that shown in
Figure 7. As shown in Figure 7, the user selects the
"travel", "stock quotes", and "weather" items on the
menu. When the user accesses the web page using the
10 browser on the mobile telephone, document manager 106
delivers only the selected links "travel", "stock" and
"weather" of the web page for further user selection,
as shown in Figure 8.

For each bookmark, management server 105 creates a
15 corresponding site record 407 (Figure 4), which
identifies the web site corresponding to the bookmark,
and provides customized content record 408, which
details user-provided customization of the web site
(e.g., list of selected resources at the home page of
20 the website).

Upon completing the user operation at step 226, if the bookmark is already existing (i.e., from the pre-processed list), the bookmark is modified to reflect the user customization (step 227). Otherwise, a new bookmark is created (step 228). Based on the user's input, a new document suitable for delivery to the specified internet appliance is created (step 229). (In this example, the specified device is a wireless device having a client browser capable of receiving WML documents). The bookmark thus created or modified is then confirmed and saved into the database system (steps 230 and 231). Management server 105 then returns the user to the menu of step 204.

From the menu of step 204, if the user elects to modify a bookmark (step 208), management server 105 allows the user to modify a bookmark from either the list of bookmarks associated with the user (step 234),
5 or allows the user to edit the list of bookmarks itself (step 233). If the user selects an existing bookmark to modify, the bookmark is retrieved from database system 107 (step 234) and the steps 225-231 described above are carried out. Otherwise, the user is allowed
10 to edit the list of bookmarks at step 235. The edited bookmark list is confirmed and saved into database 107 (steps 235 and 237). Management server 105 then returns the user to step 204.

From the menu of step 204, if the user elects to
15 associate a bookmark with a registered device (step 209), management server 105 retrieves the list of bookmarks associated with a specified device (step 238) and allows the user to select from that list bookmarks to be associated with other devices (step 239). The
20 user can then associated each selected bookmark with one or more devices selected from a list of registered devices (step 240). In fact, management server 105 allows association not only with registered devices (step 242), additional devices can also be created
25 (step 243). The associations of bookmarks with devices are confirmed and saved into database 107 (steps 244 and 245). Management server 105 then returns the user to step 204.

Figure 5 shows in further detail the bookmark
30 creation or modification process, in accordance with the present invention. As shown in Figure 5, during the management session 501, at step 502, management server 105 creates a web page (in HTML format, in this example) which is a menu or a form that solicits a user
35 input of an URL. Upon receiving the URL, the web

resource corresponding to the URL is retrieved as an HTML document (for example only) and parsed by a document manager, also whimsically called an "inhaler" (steps 504 and 505). The document manager or inhaler identifies the information units in the document to create a document object model (DOM) at step 506. From the DOM, the document manager creates an option list, which is presented to the user to allow the user to select the preferred information units using a conventional web browser (step 508a). Based on the user selections, a personalized list capturing the user's preferences is created (step 510). Based on the personalized list, processed documents suitable for display on specific devices (e.g., WML processed document 511 and PHTML processed document 512) are provided. (PHTML is a version of HTML typically used in a personal digital assistant or "Palm" device). In addition, in one embodiment, when the user accesses the processed document at a later time using the internet device, resources in the processed document (e.g., resources reachable from the hypertext links in the processed document) can similarly be processed (e.g., WML processed document 514 or PHTML processed document 515) using the steps 504-507 in the manner described above. An option list can be generated in a similar manner as described above with respect to step 508a. In this instance, the option list is presented to the user in the form suitable for the internet appliance, such as WML document (step 508b) or a PHTML document (step 508c). As in the instance of the user in front of a desk top computer, a user can enable customization through WML document 508b or PHTML document 508c from the mobile telephone or the palm device.

Figure 3 is a flow diagram 300 illustrating the
35 interactions between an internet appliance and portal

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090729Z
090730Z

108 during an access to a web resource by the internet appliance, in accordance with the present invention. As shown in Figure 3, when the user initiates access, the user first accesses the home page "Myweb2go" (the file "portal.wml"). Upon receiving request for this web page, portal 108 checks if the accessing device is a supported device (step 302). If the accessing device is not supported, a generic error page "errorMsg.wml" is returned (step 306). Otherwise, portal 108 checks whether or not the accessing device is a registered device (step 303). If it is not a registered device, the accessing device is registered using default settings (step 304). Thereafter, the channels and the processed list of bookmarks are made available to the user (step 305).

The above detailed description is provided to illustrate the specific embodiments of the present invention and is not intended to be limiting. Numerous modifications and variations within the scope of the present invention are possible. The present invention is set forth in the following claims.

Claims

I claim:

1. A method for customizing a structured document for delivery to an internet appliance,
5 comprising:
 - identifying information units in said structured document;
 - selecting one or more of said information units for delivery;
 - 10 creating in a database a second structured document including said one or more of said information units; and
 - delivering said second structured document to said internet appliance.
- 15 2. A method as in Claim 1, wherein said second structured document comprises an XML document.
3. A method as in Claim 1, further comprising creating a menu including said information units, said
20 menu being adapted for selection by a user and being presented to said user on a graphical display.
4. A method as in Claim 1, wherein said internet appliance comprises a mobile telephone.
5. A method as in Claim 1, wherein said internet
25 appliance comprises a personal digital assistant.
6. A method as in Claim 1, wherein said internet appliance comprises a hand-held computer.

7. A method as in Claim 1, further comprising, prior to said identifying, specifying said structured document from by a uniform resource locator (URL).

8. A method as in Claim 1, further comprising,
5 prior to said identifying, selecting said structured
document from a list of bookmarks.

9. A method as in Claim 1, wherein said internet appliance includes means for determining the internet appliance's geographical location.

10 10. A method as in Claim 9, further comprising
including in said second document pre-configured
resources.

11. A method as in Claim 10, wherein said pre-
configured resources comprises location-specific
15 information.

12. A method as in Claim 10, wherein said pre-configured resources are updated at specified time intervals.

13. A method as in Claim 1, wherein said second
20 document is adapted for display on said internet
appliance in accordance with a profile of said internet
appliance.

14. A method as in Claim 13, further comprising,
prior to said selecting, creating said profile of said
25 internet appliance.

15. A method as in Claim 1, further comprising, prior to said delivery, presenting on said internet appliance a menu for selection, said menu including as a selection item a bookmark representing said second structured document.

16. A method as in Claim 1, wherein said second structured document is associated in said database with a specified user.

17. A database comprising:

- 5 a user record identifying a user;
- a device record identifying an internet appliance;
- a client record identifying a browser running on said internet appliance;
- 10 a user_client record associating said user record with said client record; and
- a device profile record associating said user_client record with said device record.

18. A database as in Claim 17, further comprising
15 a channel record associated with said user_client record, said channel representing a pre-configured resource.

19. A database as in Claim 17, further comprising
20 a site record associated with said user_client record, said site record representing a specified resource.

20. A database as in Claim 19, further comprises
a customization record associated with said site record, said customization record representing
modification of said resource in accordance with said
25 device_profile record.

21. A document customization system, comprising:

 a management server offering a document customization service to a user;

a document manager associated with said management server for performing said document customization service to structured documents identified by said user;

5 a database accessible by said document manager, said database storing customized structured documents resulting from said document manager performing said document customization service; and

a portal for accessing said customized structured
10 documents in said database.

22. A document customization system as in Claim 21, wherein said portal is customized for access by an internet appliance.

23. A document customization system as in Claim
15 22, wherein said internet appliance comprises a personal digital assistant.

24. A document customization system as in Claim 22, wherein said internet appliance comprises a mobile telephone.

20 25. A document customization system as in Claim 22, wherein said internet appliance comprises a hand-held computer.

26. A document customization system as in Claim 21, wherein said management server provides a web page-
25 based interface to said document manager.

27. A document customization system as in Claim 21, wherein said document manager parses said structured documents to identify information units in said structured documents.

28. A document customization system as in Claim 21, wherein said customized structured documents are stored in a hypertext format.

29. A document customization system as in Claim 21, wherein said database comprises:

a user record identifying a user;

a device record identifying an internet appliance;

a client record identifying a browser running on said internet appliance;

a user_client record associating said user record with said client record; and

a device profile record associating said user_client record with said device record.

30. A document customization system as in Claim 29, wherein said database further comprises a channel record associated with said user_client record, said channel representing a pre-configured resource.

31. A document customization system as in Claim 29, wherein said database further comprising a site record associated with said user_client record, said site record representing a specified resource.

32. A document customization system as in Claim 31, said database further comprises a customization record associated with said site record, said customization record representing modification of said resource in accordance with said device_profile record.

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Rod Fan

Rod Fan

Paul Chen

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graph TD
    101((WEB RESOURCES)) <--> 101_CLOUD((INTERNET))
    102[OTHER INTERNET APPLIANCE] <--> 101_CLOUD
    103[MOBILE PHONE CLIENT] <--> 101_CLOUD
    104[REGULAR BROWSER CLIENT] <--> 101_CLOUD
    101_CLOUD <--> 106[PORTAL]
    101_CLOUD <--> 105[MANAGEMENT SERVER]
    106 <--> 107[DATA BASE SYS]
    105 <--> 107
    105 <--> 106_I[IO MANAGER]
    106_I <--> 107
```

Fläche 1

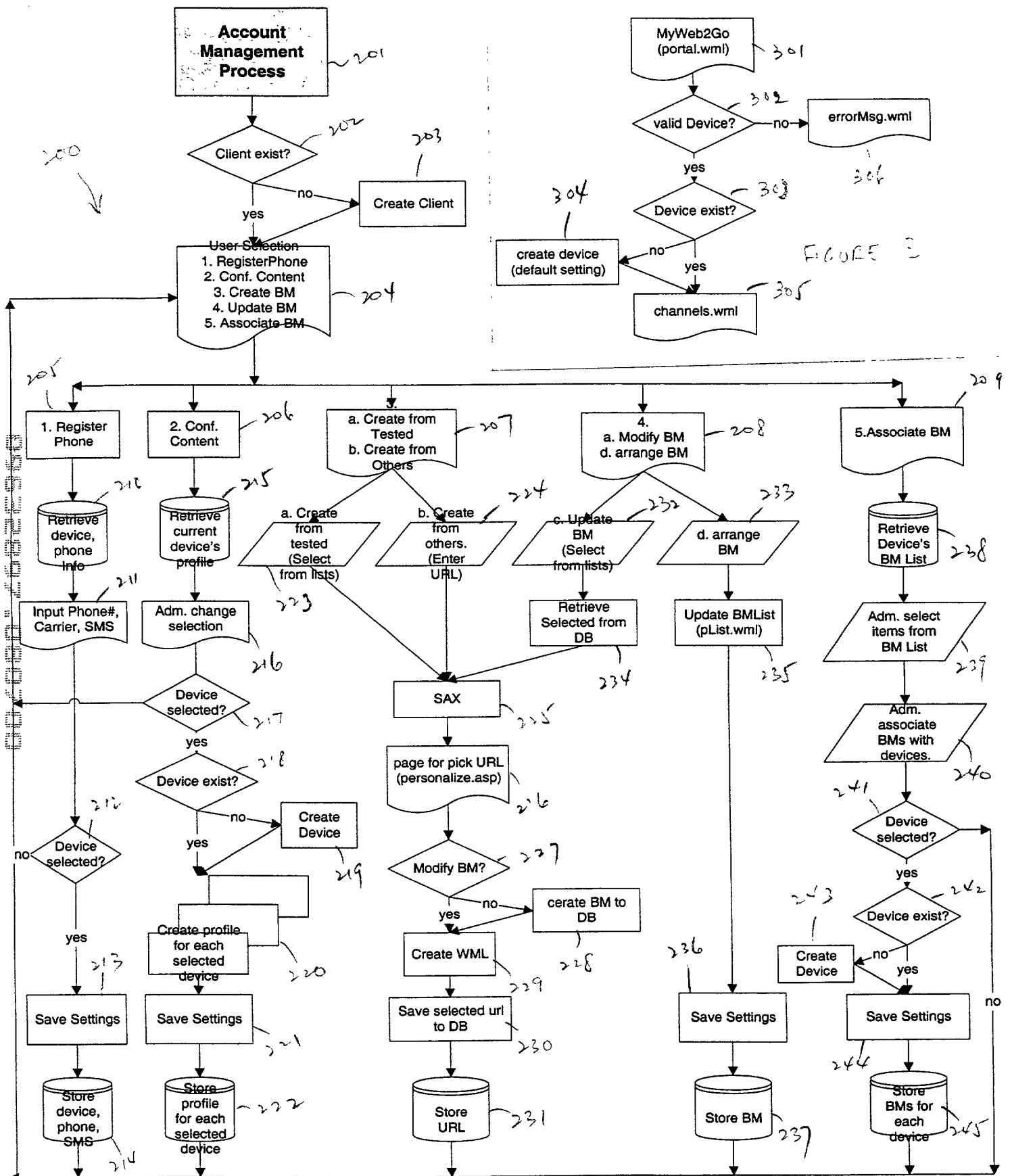


FIGURE 2

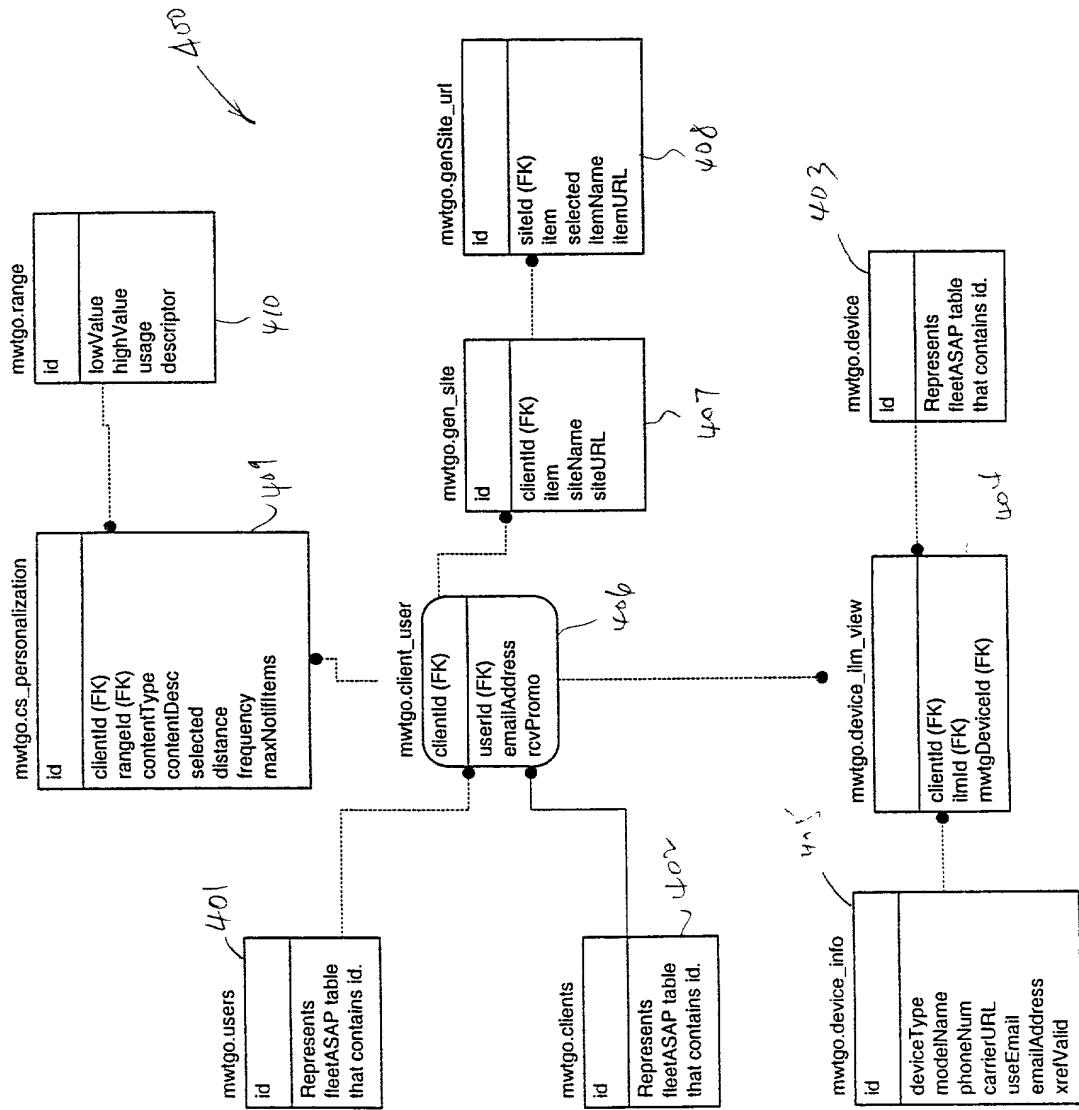
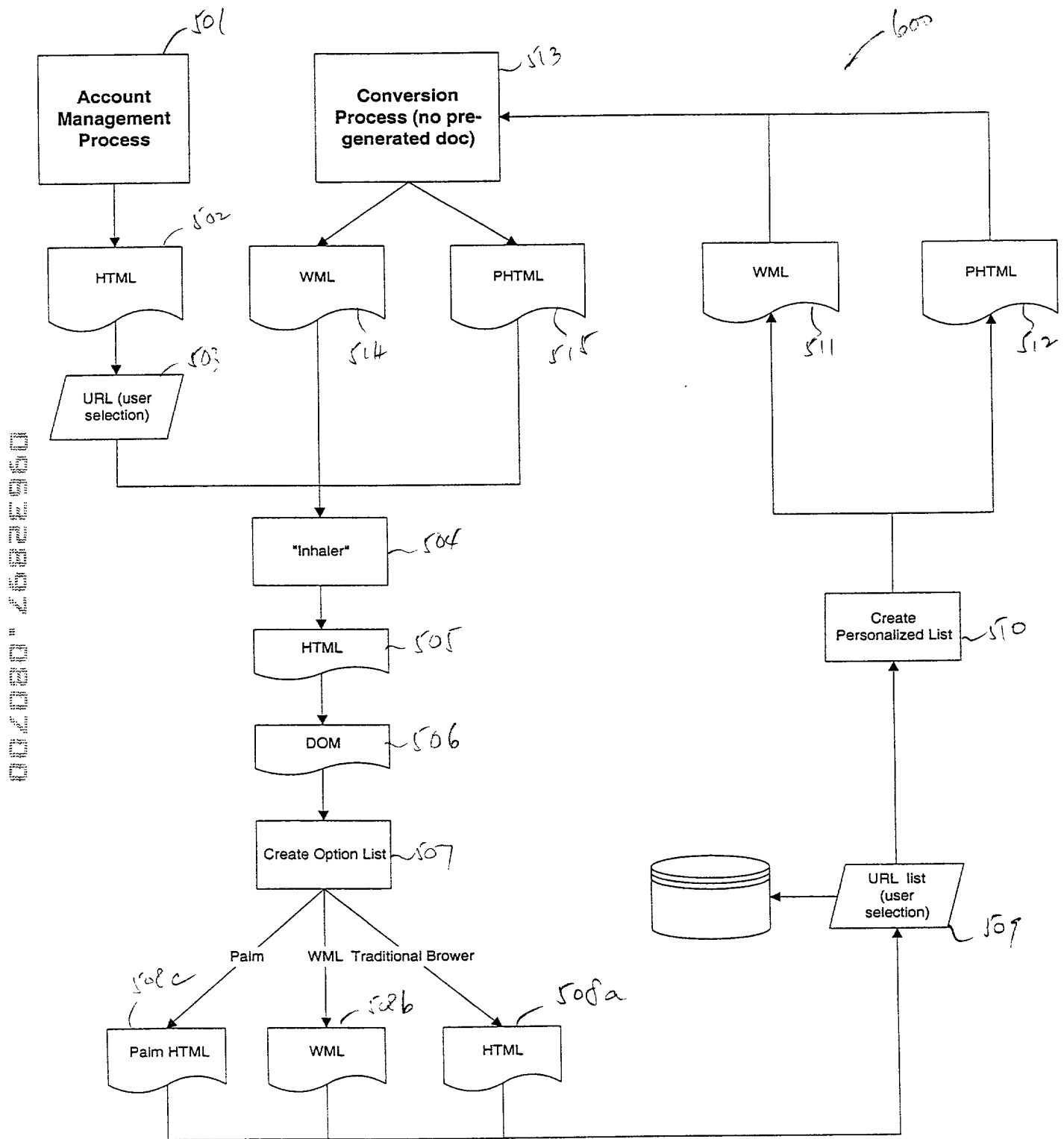


FIGURE 4





Auctions



Messenger



Check Email

YAHOO!

What's New



Personalize



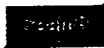
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Win a new office
from Staples.com



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Connect · Chat · Clubs · Games · GeoCities · Greetings · Invites · Mail · Messenger · Personals · People Search · For Kids
Personal · My Yahoo! · Addr Book · Calendar · Briefcase · Photos · Alerts · Bookmarks · Companion · Bill Pay **more...**



Yahoo! Shopping - Thousands of stores. Millions of products.

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· Luxury · Sports
· Computers · Music
· Electronics · Video/DVD

Stores

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· Tavolo
· Sephora
· Banana Republic

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· Special Offers
· Top-selling CDs
· Gift Ideas

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Computers & Internet

Internet, WWW, Software, Games...

Reference

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Education

College and University, K-12...

Regional

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Entertainment

Cool Links, Movies, Humor, Music...

Science

Animals, Astronomy, Engineering...

Government

Elections, Military, Law, Taxes...

Social Science

Archaeology, Economics, Languages...

Health

Medicine, Diseases, Drugs, Fitness...

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People, Environment, Religion...

In the News

- Starr spokesman charged for leaks
 - US ready for missile-defense test
 - Body of Julius Erving's missing son found
 - Wimbledon - Tour de France
- more...**

Marketplace

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- Free 56K Internet Access
- Y! Travel - plan your summer vacation

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 - 2pm : Walter Trout listening party
 - 7pm : Yankees vs. Mets
- more...**

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- Yahoo! Radio - tune in to your favorite station
- Fantasy Baseball - midseason sign-ups, 3 days left!

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Asia Pacific : Asia - Australia & NZ - China - Chinese - HK - India - Japan - Korea - Singapore - Taiwan

Americas : Argentina - Brazil - Canada - Mexico - Spanish

U.S. Cities : Atlanta - Boston - Chicago - Dallas/FW - LA - NYC - SF Bay - Wash. DC - **more...****More Yahoo!s**

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Entertainment : Top - Astrology - Broadcast - Games - Movies - Music - Net Events - Television

Finance : Top - Banking - Bill Pay - Insurance - Loans - Taxes - FinanceVision

Local : Top - Classifieds - Events - Lodging - Maps - Restaurants - Yellow Pages

News : Top Stories - Business - Entertainment - Lottery - Politics - Sports - Technology - Weather

Publishing : Briefcase - Clubs - Invites - Photos - Home Pages - Message Boards - Store

FIGURE 6

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myWeb2Go

www.atroad.com

www.yahoo.com

Control Panel

Vehicle Status

Map ViewPLUS

Reports

Messaging

Work Flow Status

Maintenance

Time Card Report

Administration

myWeb2Go

Support

Fleet Resources

☐ Yahoo! Photos ☐ Yahoo! Mail ☐ advanced search

<input type="checkbox"/> Auctions	<input type="checkbox"/> Classifieds	<input type="checkbox"/> Shopping
<input checked="" type="checkbox"/> Travel	<input type="checkbox"/> Yellow Pgs	<input type="checkbox"/> Maps
<input type="checkbox"/> News	<input type="checkbox"/> Sports	<input checked="" type="checkbox"/> Stock Quotes
<input type="checkbox"/> TV	<input checked="" type="checkbox"/> Weather	<input type="checkbox"/> Chat
<input type="checkbox"/> Clubs	<input type="checkbox"/> Games	<input type="checkbox"/> GeoCities
<input type="checkbox"/> Greetings	<input type="checkbox"/> Invites	<input type="checkbox"/> Mail
<input type="checkbox"/> Messenger	<input type="checkbox"/> Personals	<input type="checkbox"/> People Search
<input type="checkbox"/> For Kids	<input type="checkbox"/> My Yahoo!	<input type="checkbox"/> Addr Book
<input type="checkbox"/> Calendar	<input type="checkbox"/> Briefcase	<input type="checkbox"/> Photos
<input type="checkbox"/> Alerts	<input type="checkbox"/> Bookmarks	<input type="checkbox"/> Companion
<input type="checkbox"/> Bill Pay	<input type="checkbox"/> more...	

<input type="checkbox"/> Yahoo! Shopping		
<input type="checkbox"/> Apparel	<input type="checkbox"/> Luxury	<input type="checkbox"/> Computers
<input type="checkbox"/> Electronics	<input type="checkbox"/> Beauty	<input type="checkbox"/> Sports
<input type="checkbox"/> Music	<input type="checkbox"/> Video/DVD	<input type="checkbox"/> Macy's
<input type="checkbox"/> Tavolo	<input type="checkbox"/> Sephora	<input type="checkbox"/> Banana Republic
<input type="checkbox"/> Summer Fun	<input type="checkbox"/> Special Offers	<input type="checkbox"/> Top-selling CDs
<input type="checkbox"/> Gift Ideas		

<input type="checkbox"/> Arts & Humanities	<input type="checkbox"/> Literature	
<input type="checkbox"/> Photography	<input type="checkbox"/> Business & Economy	<input type="checkbox"/> B2B
<input type="checkbox"/> Finance	<input type="checkbox"/> Shopping	<input type="checkbox"/> Jobs
<input type="checkbox"/> Computers & Internet	<input type="checkbox"/> Internet	<input type="checkbox"/> WWW
<input type="checkbox"/> Software	<input type="checkbox"/> Games	<input type="checkbox"/> Education

FIGURE 7

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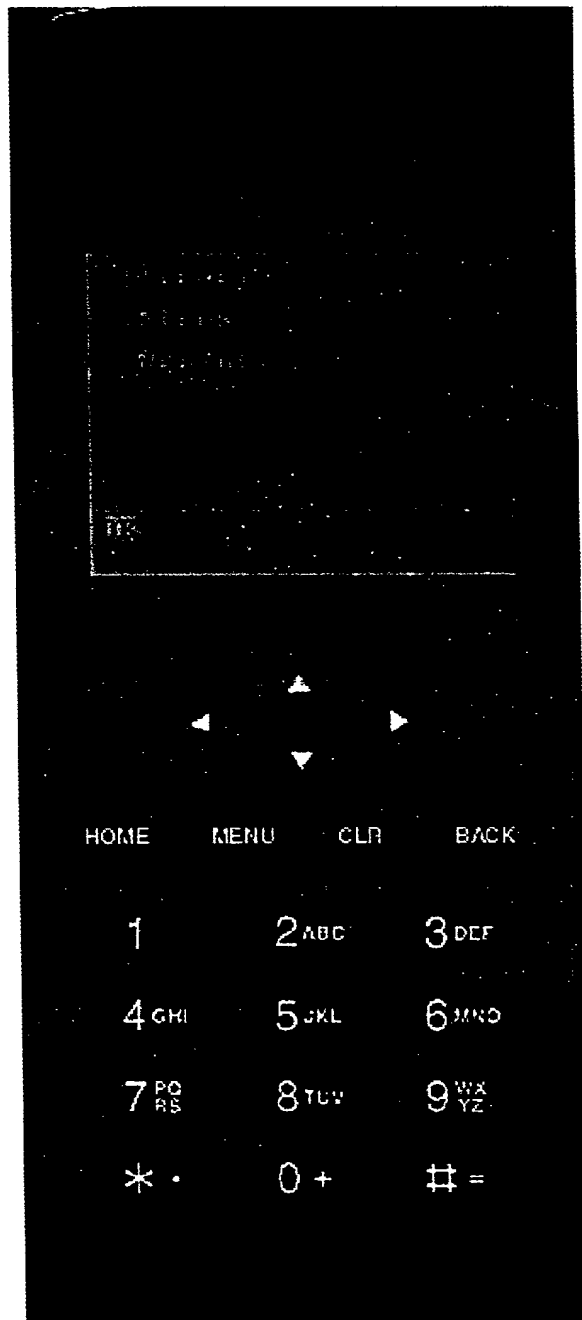


FIGURE 8

**DECLARATION FOR PATENT APPLICATION
AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below adjacent to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of subject matter (process, machine, manufacture, or composition of matter, or an improvement thereof) which is claimed and for which a patent is sought by way of the application entitled

“Method and System For Managing And Delivering Web Content To Internet Appliances”

which (check) ☒ is attached hereto.
☐ and is amended by the Preliminary Amendment attached hereto.
☐ was filed on as Application Serial No.
☐ and was amended on (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

Prior Foreign Application(s)			Priority Claimed	
Number	Country	Day/Month/Year Filed	Yes	No
N/A	{Country}		<input type="checkbox"/>	<input type="checkbox"/>

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

Provisional Application Number	Filing Date
N/A	

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) or PCT international application(s) designating the United States of America listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information, which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56, which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

Application Serial No.	Filing Date	Status (patented, pending, abandoned)
N/A		{Status}

09672297 "020700

Alan H. MacPherson (24,423); Brian D. Ogonowsky (31,988); David W. Heid (25,875); Norman R. Klivans (33,003); Edward C. Kwok (33,938); David E. Steuber (25,557); Michael Shenker (34,250); Stephen A. Terrile (32,946); Peter H. Kang (40,350); Ronald J. Meetin (29,089); Ken John Koestner (33,004); Omkar K. Suryadevara (36,320); David T. Millers (37,396); Michael P. Adams (34,763); Robert B. Morrill (43,817); James E. Parsons (34,691); Philip W. Woo (39,880); Emily Haliday (38,903); Tom Hunter (38,498); Michael J. Halbert (40,633); Gary J. Edwards (41,008); Daniel P. Stewart (41,332); John T. Winburn (26,822); Tom Chen (42,406); Fabio E. Marino (43,339); Don C. Lawrence (31,975); Marc R. Ascolese (42,268); Carmen C. Cook (42,433); David G. Dolezal (41,711); Roberta P. Saxon (43,087); Mary Jo Bertani (42,321); Dale R. Cook (42,434); Sam G. Campbell (42,381); Matthew J. Brigham (44,047); Hugh H. Matsubayashi (43,779); Patrick D. Benedicto (40,909); T.J. Singh (39,535); Shireen Irani Bacon (40,494); Rory G. Bens (44,028); George Wolken, Jr. (30,441); John A. Odozynski (28,769); Cameron K. Kerrigan (44,826); Paul E. Lewkowicz (44,870); Theodore P. Lopez (44,881); Mayankkumar M. Dixit (44,064); Eric Stephenson (38,321); Christopher Allenby (45,906); David C. Hsia (46,235); Mark J. Rozman (42,117); Margaret M. Kelton (44,182); Do Te Kim (46,231); Alex Chen (45,591); Monique M. Heyninck (44,763); Gregory J. Michelson (44,940); Jonathan Geld (44,702); Emmanuel Rivera (45,760); Jason FarHadian (42,523); Matthew J. Spark (43,453); and Elaine H. Lo (41,158).


Edward C. Kwok
SKJERNEN MORRILL MacPHERSON LLP
 25 Metro Drive, Suite 700
 San Jose, California 95110-1349

I declare that all statements made herein of my own knowledge are true, all statements made herein on information and belief are believed to be true, and all statements made herein are made with the knowledge that whoever, in any matter within the jurisdiction of the Patent and Trademark Office, knowingly and willfully falsifies, conceals, or covers up by any trick, scheme, or device a material fact, or makes any false, fictitious or fraudulent statements or representations, or makes or uses any false writing or document knowing the same to contain any false, fictitious or fraudulent statement or entry, shall be subject to the penalties including fine or imprisonment or both as set forth under 18 U.S.C. 1001, and that violations of this paragraph may jeopardize the validity of the application or this document, or the validity or enforceability of any patent, trademark registration, or certificate resulting therefrom.

1.

Full name of sole joint inventor:

Daniel T. Chang

Inventor's Signature: 

Date:

8-2-00

Residence:

Belmont, California

Post Office Address:

2611 Hasting Drive
Belmont, California 94002

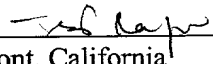
Citizenship:

Taiwan / U.S. Green Card

2.

Full name of sole joint inventor:

Jay Raju

Inventor's Signature: 

Date:

8/2/2000

Residence:

Fremont, California

Post Office Address:

34618 Pueblo Terrace
Fremont, CA 94555

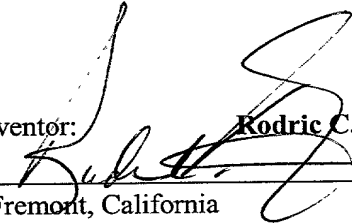
Citizenship:

India

3.

Full name of sole joint inventor:

Rodric C. Fan

Inventor's Signature: 

Date:

Aug 2, 2000

Residence:

Fremont, California

Post Office Address:

323 Lower Vintners Circle
Fremont, California 94539

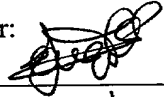
Citizenship:

United States

4.

Full name of sole joint inventor:

Haiqi Chen

Inventor's Signature: 

Date:

Aug. 2, 2000

Residence:

Sunnyvale, CA

Post Office Address:

825 Evelyn Ave, #510
Sunnyvale, CA 94086

Citizenship:

Canada

5.

Full name of sole joint inventor:

Paul Chen

Inventor's Signature: 

Date:

Aug 2, 2000

Residence:

1559 Fairway

Post Office Address:

San Jose, CA
1559 Fairway Green Circle
San Jose, CA 95131

Citizenship:

Taiwan

United States

002030 2622350